

Title (en)  
ELONGATED FUNNEL-SHAPED JET NOZZLE STRUCTURE

Title (de)  
SCHLANKE UND TRICHTERFÖRMIGE STRAHLDÜSENSTRUKTUR

Title (fr)  
STRUCTURE DE BUSE DE JET EN FORME D'ENTONNOIR ALLONGÉE

Publication  
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Application  
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Abstract (en)  
[origin: EP3513661A1] A slender and funnel-shaped jet nozzle structure includes a plurality of slender tapered diversion channels, a plurality of slender jet nozzles and a conveyer belt. The wall thickness of the slender tapered diversion channel (1) is 1-5 mm. The wall thickness of the slender jet nozzle (2) is 1-5 mm. A thickness of the conveyer belt (3) is 1-5 mm. The slender tapered diversion channel (1) is a hollow slender truncated cone and includes an upper opening and a lower opening. The upper opening of the slender tapered diversion channel is a slender elliptical opening, and the lower opening of the slender tapered diversion channel is connected to an inlet of the slender jet nozzle. The slender jet nozzle is a hollow slender elliptic cylinder. The present invention can effectively improve the heat transfer efficiency in the freezing area and the freezing efficiency of the freezer, thus overcoming the defect that the conventional nozzle structures fail to combine higher freezing efficiency and an uniform heat transfer.

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